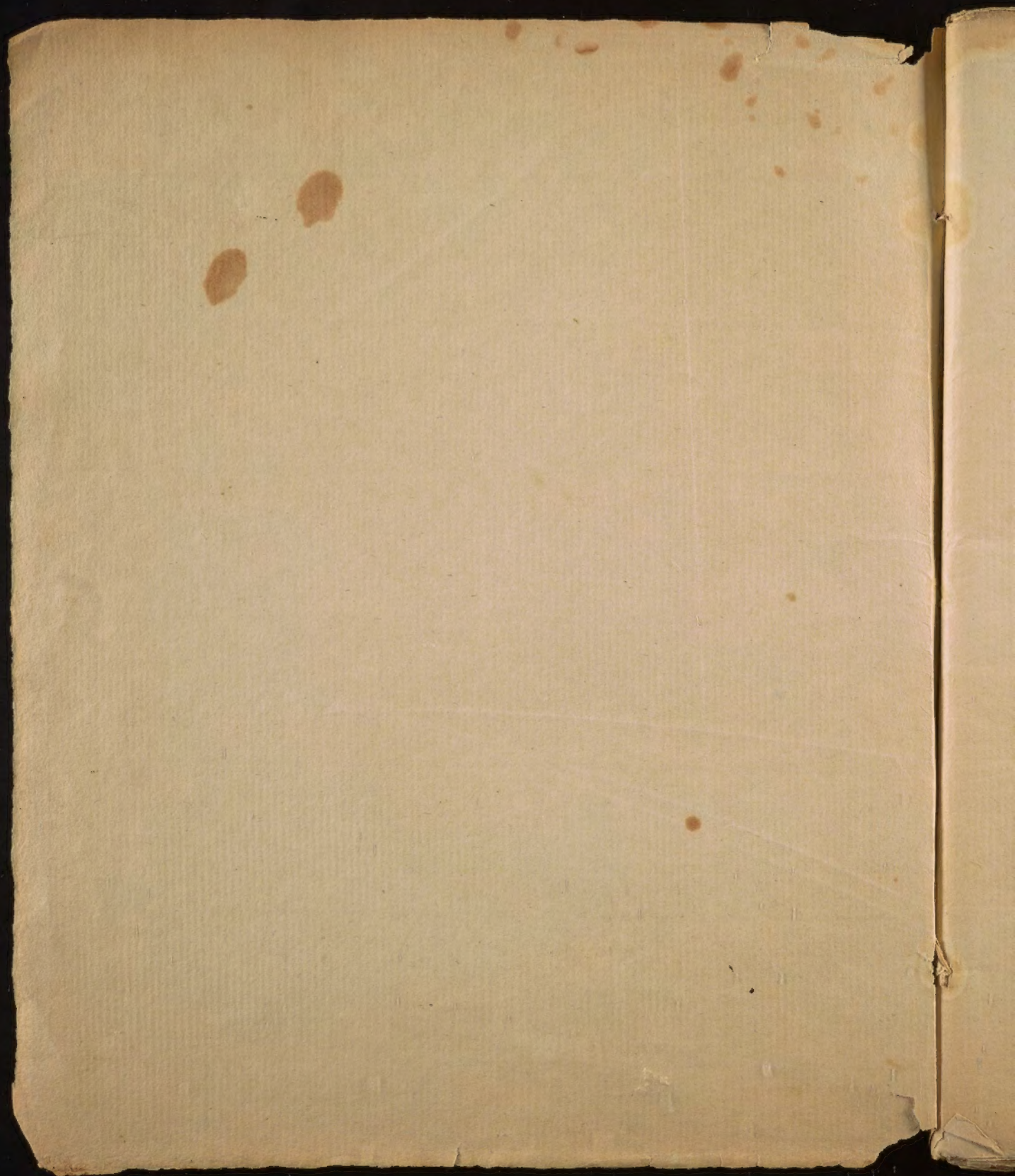


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Introductory lecture  
upon the method of studying  
medicine.

Deliv<sup>d</sup> Nov<sup>r</sup> 4. 1811.



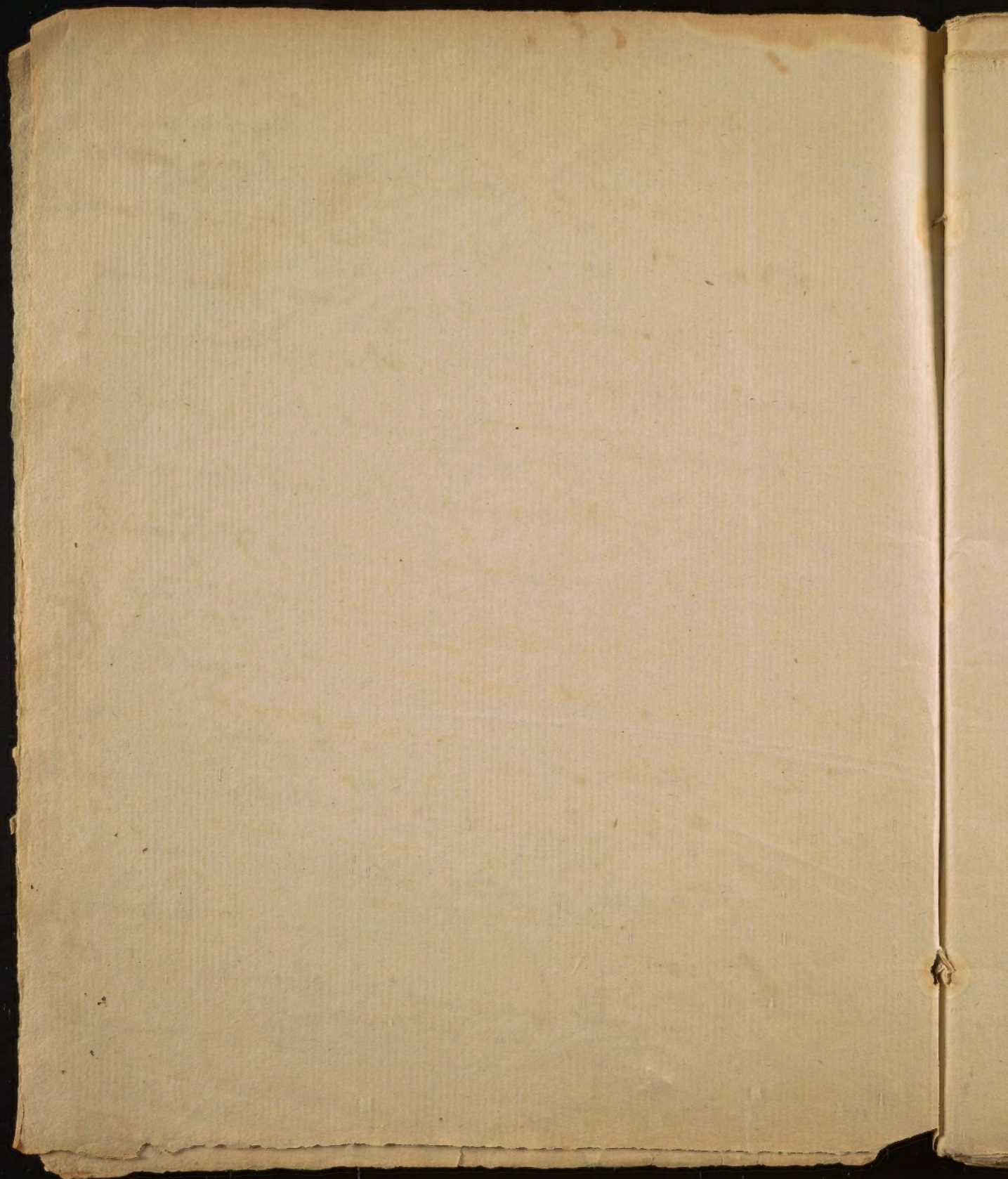




Gentlemen!

It is now more than <sup>half a century</sup> ~~fifty~~  
~~years~~ since I began the study, ~~of medicine~~  
and upwards of <sup>years</sup> forty since I entered  
upon the practice of ~~it~~ medicine. During  
these periods I have had frequent oppor-  
-tunities of observing the influence of the  
different modes of acquiring a knowledge  
of medicine ~~by~~ upon its practice in a great  
number of physicians. The result of these  
observations shall now be laid before  
you as the subject of an introductory lec-  
-ture. Before I enter upon the detail of  
the studies which are proper to qualify  
a person to practice medicine, and the  
order in which they should be pursued,

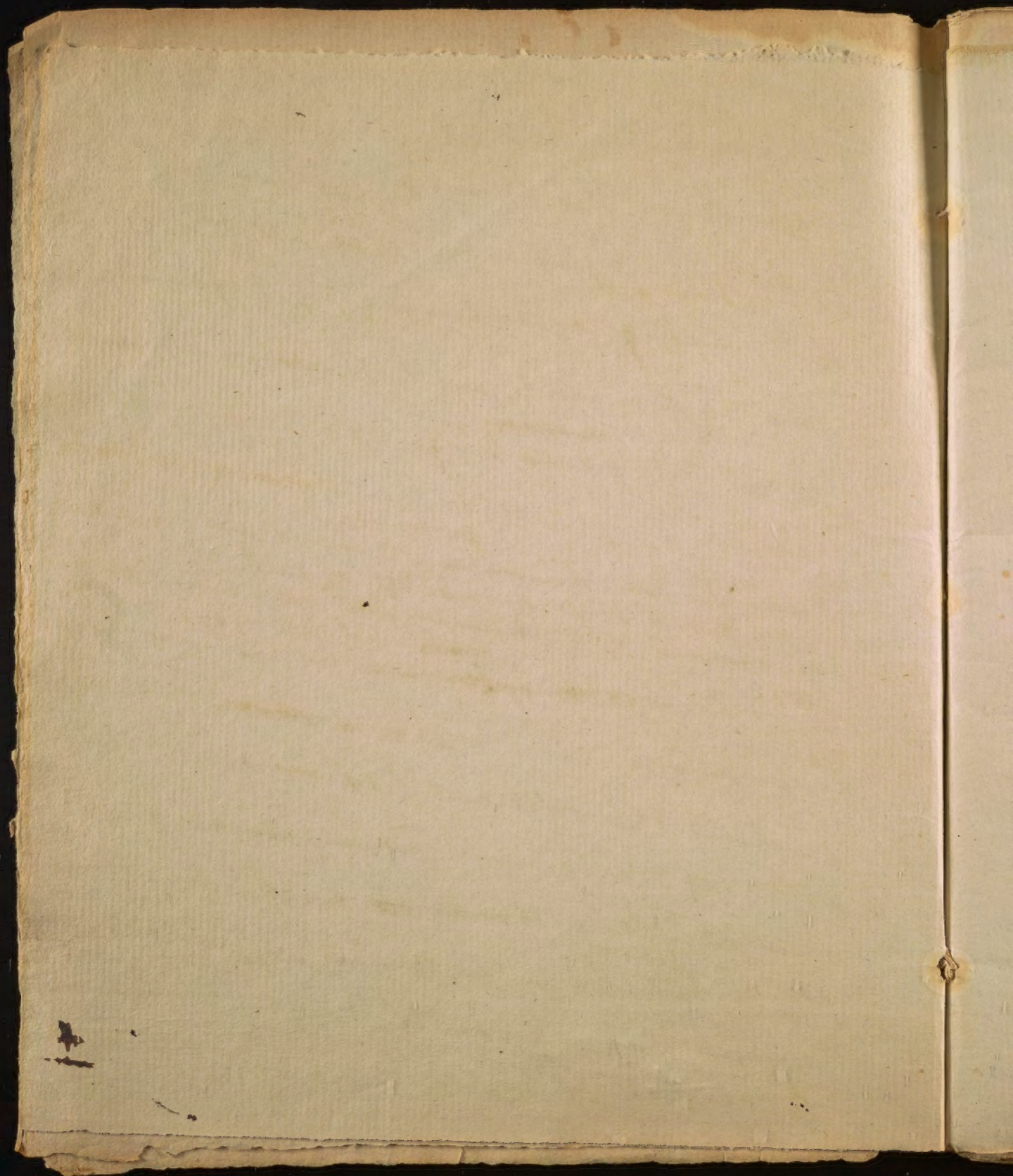






I shall remark that I consider you as  
 prepared for the study of medicine by a  
 previous acquaintance <sup>with</sup> all the branches  
 of knowledge mentioned in a former lec-  
 -ture particularly with the ~~principles of~~  
 grammar; <sup>modern</sup> languages, geography,  
 mathematics & natural philosophy, those  
 sciences are the ~~only~~ <sup>ones</sup> that lead to  
 without some knowledge of each of  
 the temple of medicine. ~~Let~~ no man enter  
~~it~~ <sup>without</sup> a knowledge of sciences ~~which~~ <sup>which</sup> you will  
~~comprehend~~ <sup>be</sup> the different branches of the  
 sciences of medicine. ~~When~~ <sup>when</sup> duty commands  
 with them he should ~~to~~ enter first upon  
 the These branches may be divided into  
 means and ends. To the former belong  
 anatomy, <sup>physiology</sup> chemistry, natural history



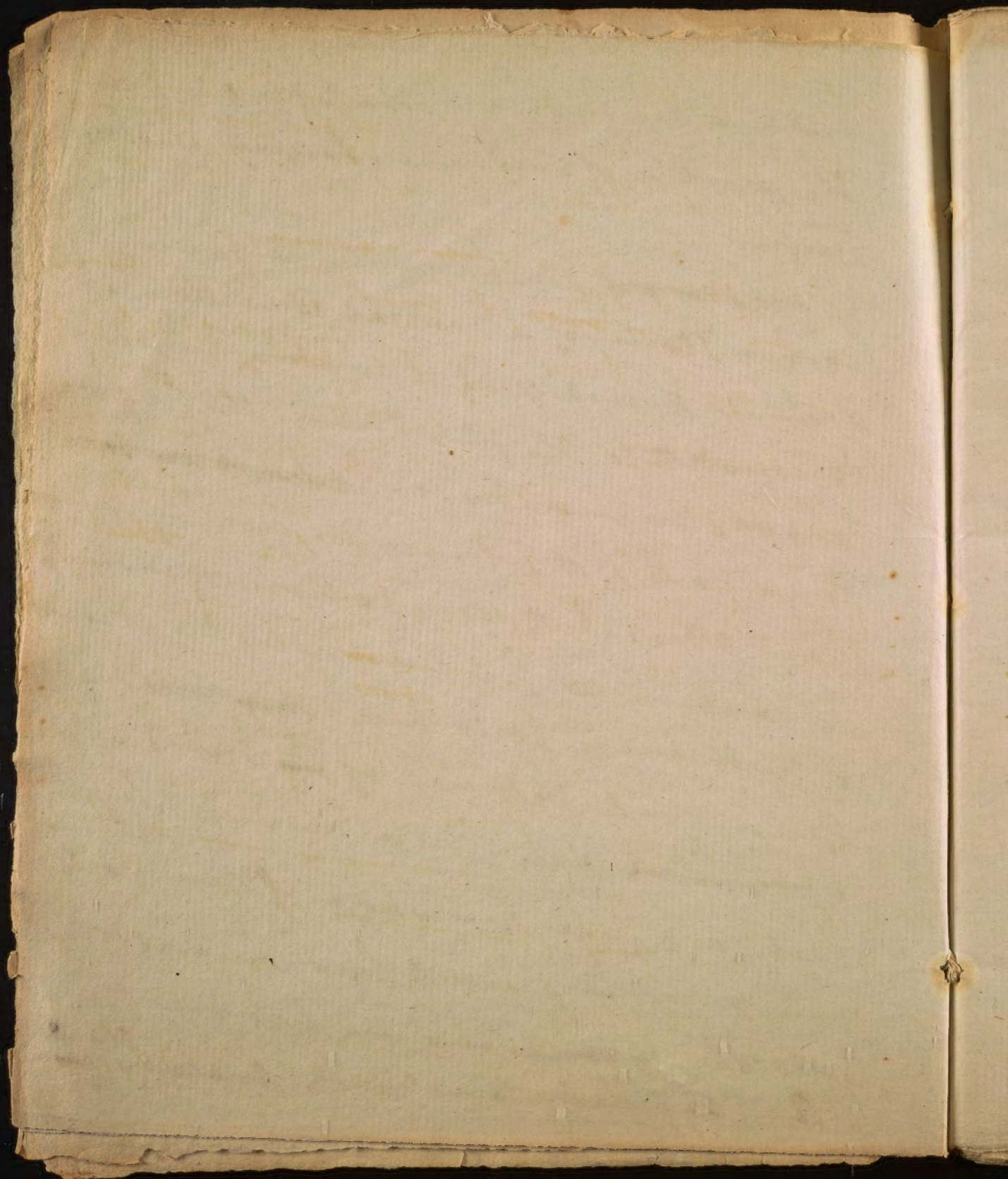




and materia medica. The latter embrace  
the practice of medicine, surgery and mid-  
wifery. —

The study of Anatomy should form the  
corner stone of a medical education. a  
minute knowledge of it is <sup>indispensably</sup> ~~absolutely~~ necessary  
to constitute the physician, the Surgeon  
and the man midwife. ~~It is true that~~  
Some parts of this Science are more important  
than others but every portion of it should  
be committed to memory by the Student  
of medicine. It is true, ~~that~~ <sup>his</sup> taste many  
of them will pass out of <sup>his</sup> mind when  
~~a physician~~ <sup>he</sup> enters into business, but  
such a general knowledge of them will  
remain, as to prevent his committing  
mistakes of ignorance in his practice.  
The acquaintance with Anatomy <sup>should</sup> ~~then~~







4  
be acquired in three ways - <sup>1<sup>st</sup></sup> by attending  
public Demonstrations <sup>and lectures upon it</sup> of the ~~important~~  
~~parts of the body~~ <sup>2<sup>ly</sup></sup> by dissecting dead bodies,  
<sup>3<sup>ly</sup></sup> and by making <sup>representations</sup> ~~preparations~~ in wax,  
or by <sup>drawings of</sup> ~~representations of~~ <sup>the different</sup> parts of the body. Do not expect Gentlemen  
to become Anatomists by in any other  
way than by those which have been men-  
tioned. Books convey an imperfect  
knowledge of the human body; - ~~these~~  
even the bodies of beasts are insufficient  
for this purpose. - <sup>around</sup> ~~they~~ the Chair then  
Gentlemen of the Professor of Anatomy,  
~~sit down~~ pass hours and days in his  
dissecting room, - <sup>call upon</sup> ~~make every part of the~~  
~~human body familiar~~ to the sense of  
touch to assist the eye in remembering  
every part of the human body, - ac-  
quire a familiarity with the dissecting



*[Faint, illegible handwriting in cursive script, likely from the 18th or 19th century. The text is written in dark ink on aged, yellowed paper.]*

*[Faint, illegible handwriting, possibly a signature or a small note.]*

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5  
knife, ~~and to facility in using it.~~ It will  
serve to ~~tear away~~ <sup>to</sup> ~~then~~ prepare you for  
cutting living flesh by wearing away the  
crustal <sup>repugnance</sup> ~~horribility~~ of the human heart to  
such an employment, and it will ~~enable~~  
impart dexterity to your hand in ~~survival~~  
performing surgical operations. Preparations  
in wax and Drawings  
~~of and portraits~~ of the ~~viscera & blood vessels,~~  
~~and of all the~~ different ~~body~~ parts of the  
body will impress them more deeply  
upon your memories, ~~and~~ they will  
serve further ~~later~~ by a glance of your  
eye to revive your knowledge of those parts  
~~at~~ when you enter into practice, and when  
they cease to be novel to you, you will  
view them with pleasure as the engravings  
of your youthful taste and ingenuity.  
Connected with Anatomy, should be







the Study of Physiology, that is an explanation <sup>as</sup> of ~~the~~  
far as it is practicable, of the Uses <sup>the</sup> of different parts of  
the body. Simple Anatomy, or the nomenclature  
of bones, muscles, blood vessels, nerves and viscera may  
be ~~considered~~ compared to the alphabet. It is by  
means of ~~Alphabet~~ physiology that this Alphabet  
is converted into <sup>a</sup> language which becomes the  
vehicle of ideas and principles, or to make  
use of another simile, Anatomy <sup>may be compared to</sup> resembles the  
outlines of a portrait perfectly correct in its  
line and figure, while physiology resembles  
the hand that gives it its <sup>drapery</sup> coloring & contour.  
-nance. What is there in the shape of the lungs  
or the heart capable of affording pleasure to  
a Student of medicine when viewed in the  
thorax, or upon a table? In vain does the  
Anatomist endeavour to fix his Attention  
upon either of them by simply







7  
naming their various parts;— But when he  
tells <sup>him</sup> ~~you~~ the lungs are the channel into  
which the stimulus of Air is poured in  
Order to set the whole Animal machine in  
motion — that this Air furnishes a principle  
which enables ~~the~~ <sup>every</sup> ~~very~~ sentient & irritable  
part of the body to assume ~~what~~ a capacity  
of life; and that the lungs convey out of the  
body, certain matters which if retained, would  
bring on Disease and Death, ~~you~~ <sup>he</sup> ~~no~~  
longer ~~view~~ beholds them with indifference.  
~~you~~ <sup>he</sup> examines their Structure, not only with  
~~your~~ <sup>his</sup> Eye but with ~~your~~ <sup>his</sup> hand, and ~~you~~  
incorporates the important Words that  
have been assigned to them with their true  
- <sup>to</sup> ~~ture~~ that he never forgets either of them.  
~~The~~ <sup>to</sup> ~~hadest~~ The same remark applies







to the heart. Driv'n simply with its auricles,  
 ventricles ~~and~~ valves and blood vessels, it has  
 nothing to recommend it to ~~our~~ notice;  
 but when contemplated as the <sup>principal</sup> ~~source~~ of  
~~the~~ agent in the circulation of the blood,  
 and thereby as the source of all the benefits  
 deriv'd from <sup>the</sup> ~~the~~ distribution of <sup>that fluid</sup> ~~the blood~~  
 to every part of the body, <sup>and still more,</sup> ~~we at once see an~~  
 when <sup>viewed</sup> ~~contemplated~~ as the seat of all  
 our social, domestic and moral passions,  
~~we~~ it becomes an object of immense  
 curiosity & we behold it with wonder and  
 Delight, ~~and~~ <sup>in vain</sup> ~~we~~ Time, <sup>Attempts in vain</sup>  
<sup>rob us of the knowledge of</sup> ~~to obliterate~~ those uses, ~~from our memory,~~  
~~for they are~~ for they occupy a place, not  
 only in our memories, but in our understand-  
 -ings,



✓ Though somewhat foreign to our Subject, it would be unjust to physiologists to pass over ~~it~~ in silence the friendly influence it has had in all Ages upon Religion. By unfolding the Uses of the <sup>various</sup> ~~components~~ parts of the body, it exhibits stronger marks of the wisdom, power & goodness of the Deity than are to be met with in any other of his material works. — This reverence for those <sup>divine</sup> Attributes of ~~the~~ is greatly increased by the details of the functions and operations of the mind, which now compose a part of modern Systems of physiology. —



and affections. The <sup>whole</sup> mind must perish, before  
that knowledge can be completely obliterated  
from it. -

I might go on and show further that  
all ~~the~~ ~~that~~ the knowledge <sup>of a physician</sup> retained  
of the structure of ~~the~~ every other part of the  
body, and all the pleasure he ~~derives~~ enjoys  
from a review of it, <sup>in every period of his life,</sup> is derived from a  
recollection of their uses. That this is the  
case is <sup>evident</sup> ~~obvious~~ from his so soon forgetting  
the structure of the brain. Even ~~to its~~  
<sup>names</sup> ~~characters~~ of its <sup>constituent</sup> ~~different~~ parts pass  
out of his mind; ~~the~~ <sup>and for this obvious reason,</sup> ~~reasons of this~~  
is ~~obvious~~ <sup>no</sup> uses have ~~been~~ as  
yet been <sup>assigned</sup> ~~assigned~~ to them. ✓ ~~thought~~

Next to Anatomy and Physiology, the  
-risty should engage the Attention of







a student of medicine. This Science is eminently  
 useful in various ways. ~~It~~ In the first  
 place it furnishes a physician with some  
 of the most powerful medicines, partic-  
 -larly with all the preparations of the metals,  
 without which our profession would be  
 useless ~~or~~ impotent in many of the  
 most formidable diseases. 2.<sup>ly</sup> It teaches  
 him ~~how~~ to administer them in such  
 a way that their beneficial effects may not  
 be defeated by ~~the~~ <sup>decomposition</sup> ~~composition~~ <sup>whether</sup>  
~~in the mode of preparing them~~ before they  
 are taken, or after they are received into the  
 stomach, and lastly it furnishes <sup>him</sup> with  
 facts and principles which enable <sup>him</sup> to  
 explain <sup>several</sup> ~~many~~ of the functions of the  
 healthy body in health, and many of the







phenomena which are exhibited by diseases.  
 To Chemistry we are indebted for an antidote  
 to the Venereal disease, - for ~~one~~ of the most  
 active remedies for the yellow fever, for the  
 most prompt cures, for the most gentle,  
 and ~~the~~ most powerful purges, ~~for~~ the  
 most certain Diaphoretics - for our knowledge  
<sup>one of</sup> of the causes of animal heat - of the Color of  
 the blood, and of the Cause of irritability &  
 sensibility. <sup>more</sup> many useful remedies ~~probably~~  
~~remain to be discovered, say it as well as~~  
<sup>other</sup> many of the phenomena of the healthy &  
 morbid <sup>body probably remain</sup> to be discovered by it. ~~It is the~~ It is the  
 key of a Cabinet of which we <sup>have</sup> seen but a  
 small part of its rich and beautiful con-  
 tents. Cultivate this science therefore gentle-  
 men with ~~apost~~ assiduity & zeal. Study







its principles and imitate its experiments. Be not satisfied with a single course of lectures upon it, and add to the instruction you will receive ~~and~~ within these walls, by reading all ~~the~~ ~~new~~ the most popular publications ~~relating~~ upon it.

With the study of Chemistry should be associated the study of natural history in which <sup>a description of animals,</sup> are included ~~the history of animals,~~ ~~animals~~ and plants. ~~It~~ It is impossible to be a physician without some knowledge of each of these sciences. The history of animals <sup>both</sup> ~~whether~~ in their living <sup>and dead</sup> states, will enlarge your knowledge of physiology, and ~~the~~ ~~knowledge~~ anatomy, and ~~from~~ from the history of fossils and plants you will derive much acquaintance with the native state of many of our medicines, and from







a knowledge of plants you will derive not  
 only many excellent medicines, but many  
 facts and analogies that will enable you  
 to explain several of the laws of the Animal  
 Economy. Pursue these studies gentlemen  
 with ardor. <sup>Adopt the zeal</sup> ~~Imitate the examples of the~~  
 gentleman who has been appointed to teach  
 them in this University. Follow him in his  
 excursions to the neighbouring ~~low~~ fields &  
 woods in quest of ~~objects~~ to plants to illustrate  
 the principles of the Science of botany. ~~without~~  
 You will be amply repaid <sup>for</sup> ~~for~~ your labor  
 in these studies, - ~~labor does pay~~ - if that  
 employment deserve the name of labor in which  
~~there is~~ such unbounded sources will  
 be opened to you of knowledge, pleasure, and  
 usefulness to mankind. —







Having ~~laid a foundation~~ made yourselves  
 acquainted with Chemistry & Natural History  
 - you will be ~~prepared~~ qualified to pro-  
 - fit by the lectures upon the materia medica.

The objects of this science are the sensible <sup>pre-</sup>parations,  
 - qualities, virtues and doses of medicines. <sup>It is</sup> a very useful and important part of  
 the ~~science~~ <sup>science</sup> of medicine. It includes  
 not only what are commonly called medicines,  
 but the <sup>qualities and</sup> preparations, ~~and doses~~ of aliments  
 and drinks. Too much pains cannot be  
 taken in acquiring a knowledge of each  
 of them. They are the tools by which a  
 physician <sup>and builds up</sup> builds up, and takes down <sup>the</sup>  
 extremes of morbid ~~weakness~~ strength &  
 weakness in the human body. ~~They~~ The





Qualities and mode of preparing Aliments &  
 Drinks so as to suit them to all the different  
 grades of acute and chronic diseases, should  
 command your closest attention. It will  
 be necessary for you <sup>to know</sup> not only in  
 general how they are <sup>made</sup> prepared, but fre-  
 quently to direct the mode of preparing  
 them so as to render them at the same  
 time pleasant and medicinal. So highly  
 do I appreciate this improved humble  
 part of the ~~education~~ <sup>education</sup> of a physician,  
 that I have sometimes wished it were  
 possible to place a <sup>young man in-</sup> ~~student of medicine~~  
<sup>profession</sup> ~~under the~~  
<sup>directed for the study of</sup> ~~under the~~  
<sup>direction of an able Cook</sup> ~~in a~~  
~~coo kitchen~~ for a few months before he  
 enters upon his studies. ~~then~~ the  
 want of this knowledge thus practically





acquired, can only be obtained by frequent  
 conversations with experienced housekeepers,  
 and by committing to ~~paper~~ memory, or  
 to paper all the common formulas of the  
 Diet and Drinks of sick people. —

I have thus gentlemen enumerated those  
 branches of <sup>medicine</sup> ~~study~~ which are necessary to qualify  
 a student to enter upon the study of the  
 practical branches of our Science. They are  
 the means only of becoming a physician. The  
~~object of or ends of those means are the~~  
~~practice of physic, surgery and midwifery.~~  
 A ~~young~~ man may be a Winslow in  
 anatomy, a Haller in physiology —  
 a Davy in chemistry & sciences  
 in natural history, and yet be wholly  
 ignorant of the ~~practice~~ end of those means,  
 that is, the practice of physic, surgery &





Midwifery. Many mistakes occur not only  
 in medicine but in other objects of human  
 pursuit from confounding ~~the~~ means and  
 ends. Thus money is not food nor clothing,  
~~but these languages are not knowledge,~~  
 but the means only of procuring them.  
 Thus languages are not knowledge, but  
 the <sup>means</sup> ~~instruments~~ only <sup>by</sup> ~~through~~ which we  
 acquire it. —

~~The~~ practice of physic involves <sup>it an</sup> ~~not~~ <sup>with</sup>  
 acquaintance with the causes of diseases.  
 These constitute what has been called patho-  
 -logy, or in other words the theory of medi-  
 -cine. By theory I understand a combination  
 of facts arranged in a related order and reduced  
 to ~~correct~~ dependence and cooperation with each  
 other. In the inaugural lecture which I delivered

may be compared to a  
Theory is the rule which measures  
facts, ~~and establishes their relation~~  
and to as from principles from  
them, while facts may be compared to  
a crucible which analyses ~~to test them~~ theories.  
In this manner, they mutually ~~support~~ establish  
the truth, or detect the errors of each other.



~~up~~ in the year 1791 upon entering upon  
 the duties of the Chair which I now occupy  
 in this University, I endeavoured to show the  
 intimate and necessary connection between  
 theory and practice in medicine. ~~That~~ I  
~~have not relaxed in a single title in the~~  
~~have not relaxed in a~~ <sup>continued</sup> to hold the  
~~same~~ opinions which <sup>expressed</sup> I delivered in that  
 lecture. On the contrary I am more satisfied  
 than ever, that without ~~the~~ <sup>theory or</sup> ~~the~~  
~~observation and reasoning in medicine, a~~  
 man cannot be a physician. I know it  
 is fashionable to ~~do away~~ <sup>theory is</sup> ~~is~~  
~~and~~ to extol facts or what is commonly  
 called experience, at ~~its~~ <sup>the</sup> expense <sup>of theory,</sup> but facts &  
 experience are as delusive in medicine, as  
 theory is without facts. This science may  
 be compared to a tripod, the three feet of

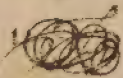
It is only by both, that can be  
✓ By convincing them, they ~~mutually~~  
made to establish the truth, or detect the errors  
of each other. —



19

which are Observation, experiment and reasoning, or theory. It cannot stand upon any one, nor yet upon any two of them, but United, they mutually support each other. It is true the progress of our Science has ~~been~~ retarded by many erroneous theories, but it is equally true it has been ~~more~~ retarded by erroneous observations and fallacious experiments. I cannot better illustrate the truth of this remark than by mentioning the Advantages which our Science has derived from the labors of two men whose names are immortal in the history of medicine, I mean Dr Denham & John Hunter. The former overthrew the theories of Aesc by his faithful and accurate descriptions of diseases, while the latter exposed the fallacy of the hundreds of supposed facts by

V But why do I plead for the Union of  
theory and practice in medicine? — They  
are already connected by an eternal, and  
immutable law in the ~~wisdom~~ human  
mind, ~~from every effort to separate~~ <sup>with them</sup>  
~~is as~~ <sup>late</sup> has been as unsuccessful as the attempts  
of the Infidels to divide morals from Religion.





his theories, or in other words ~~by his disavowal~~  
of the laws of the animal Economy, and the  
operation of medicines in the cure of his cases.  
~~Permit me to add further, that the physicians,~~  
~~who attempt to divide theory & practice,~~  
~~aim at the same impossibility that the~~  
~~Infidels have lately done, who have attempted~~  
~~to divide morals from Religion. Theory &~~  
~~practice are connected by an eternal and~~  
~~immutable law in the human mind.~~  
V  
"To think is to the cure" says Dr Duguesne, and  
where is the man who can renounce or  
even for a moment, <sup>operation</sup> ~~this~~ <sup>act</sup> of his  
mental faculties? ~~is not thinking?~~ There never  
was a physician who did not <sup>in spite of himself,</sup> ~~secretly~~ <sup>theore</sup>  
or who that prescribed a medicine without  
a secret indication of cure founded upon a  
theory of some kind. —





of his lectures. As a proof that the ~~importance~~  
 & obvious name of theory consists only in its  
 novelty, it will not be improper to add that  
 the same ~~dislike~~ physicians who were devoted  
 to Di Boerhaave's ~~reported~~ <sup>as</sup> Lentor & morbid  
 acrimony of the fluids, are now <sup>exactly</sup> attached  
 to ~~to~~ <sup>to</sup> De Luller's theories of Spasm, putrefac-  
 -tion, the healing powers of Nature, and the  
 relative operation of ~~some~~ <sup>certain</sup> medicines.

In one of Moliere's <sup>comedies</sup> ~~plays~~ entitled the  
 "Citizen turned Gentleman", <sup>a</sup> ~~the~~ citizen ap-  
 -plies to a professor of Rhetoric to be taught the  
 principles of language. The professor began by  
 dividing all writings into verse & prose, and  
 illustrated each of them by quotations, <sup>the</sup>  
~~from~~ <sup>one</sup> from the poets, - and the <sup>other</sup> ~~latter~~ from  
 the language of common conversation. The  
 citizen no sooner heard the ~~examples~~ <sup>illustra-</sup>  
 -tion of



✓ But there is another instance of self deception into which physicians who are opposed to theory insensibly glide without being conscious of it. It consists in hostility to such theories only as are new. This was exemplified in a remarkable manner in Edinburgh when Dr Cullen first taught that the proximate cause of diseases was to be sought for chiefly in the solids. His brethren, who were devoted to the humoral pathology of Dr Boerhaave complained of his theorizing, and for a while treated his opinions as the effusions of a wild & distempered imagination. The Doctor was not insensible of the inconsistency of their charges against him, and availing himself of the simplicity of his principles, declared that there was more theory in one page of Vanswieten's Commentaries upon Dr Boerhaave's Aphorisms, than there was in a Dozen of his lectures. As a proof that the odious name of theory consisted only in its novelty, it may not be improper to add, that the Incubus of those physicians in Edin<sup>2</sup> who opposed Dr Cullen's theory, now adhere exclusively and pertinaciously to them <sup>to the exclusion of all</sup> ~~theories of humors, putrefaction,~~ ~~the healing power of nature, and the relative operations~~ ~~of certain medicines~~ modern principles in medicine.



the latter, than he discovered that he was in  
possession of the knowledge of it, and excited in  
the consciousness that he had been in the  
habit of speaking and writing prose in every  
part of his life. The same thing may be  
said of those physicians who are the enemies  
of theory. They are in the constant practice  
of exercising it without knowing it every  
time they prescribe for the cure of <sup>a</sup> dis-  
=case.

✓ In defending theory gentlemen I have admitted  
many of them to be erroneous, but in doing so,  
I have conceded more than was just, for most  
of the theories that have existed in medicine  
are nothing but a collection of supposed facts.  
~~For example~~ I shall illustrate the truth of this  
remark by a few examples. Dr Boerhaave's  
theory of fever is founded upon what he called

~~Theory is not only natural & involuntary in the  
minds of regular but physicians, but even Quacks  
do homage to it, & hence <sup>some</sup> redundant or acid  
humor is to be evacuated, or obtunded, - some  
fluid is to be restrained, or accelerated in its  
course, or some part of the body is to be relax-  
-ed, or strengthened in all these prescriptions.~~  
~~turn back to p. 3.~~



morbid matter ~~and~~ ~~in~~ in the blood.  
~~now this~~ ~~these~~ ~~are~~ ~~false~~ ~~facts~~ ~~if~~ ~~I~~ ~~may~~ ~~be~~ ~~allowed~~ ~~the~~ ~~expression~~ This matter he supposed  
 was expelled in the sweat, and sediment in the  
 Urine which take place in the Crisis of fever.  
~~Now~~ ~~this~~ ~~is~~ ~~a~~ ~~false~~ ~~fact~~ ~~if~~ ~~I~~ ~~may~~ ~~be~~ ~~allowed~~  
 = ~~of~~ the expression, for the matter thus discharged  
 is nothing but one of the component parts of the  
 blood ~~can~~ thrown out of the body in consequence  
 of the restoration of natural action in the  
 capillary vessels of the skin, and in the blood  
 vessels of the kidneys. Again Dr Cullen ~~places~~ <sup>in</sup>  
 his theory of fever places its proximate cause  
 in a Spasm in the extremities of the blood  
 = vessels ~~of the skin~~ which terminate in  
 the skin. Now ~~can~~ no such Spasm take  
 place except during the Chilly fit of a

✓ that I include among the false facts,  
not only such as are derived from observa-  
-tion, but likewise from experiments ~~of~~  
made apparently with care, & related with  
~~great~~ seeming candor. Of this, our periodical  
publications <sup>constantly</sup> furnish us with ~~many~~  
mutilating ~~and~~ <sup>and</sup> ~~misleading~~ proofs <sup>in</sup> ~~every~~ all the  
branches of medicine.



fever, and in all those fevers which come on without a chill, there is no spasm any where. Once more, Dr Brown's theory of fever consists of a supposed debility in the blood vessels. Now this is a false fact, ~~the~~ ~~debility is really~~ for fever consists in most cases in preternatural ~~force~~ & morbid strength in the blood vessels, induced ~~really~~ by previous debility. This is obvious not only to reason but <sup>to</sup> the sense of truth as I hope to prove <sup>or</sup> to you hereafter. - I wish it to be remembered

I might thus go on and show that a hundred other supposed facts upon particular diseases have been called theories which <sup>are</sup> cannot be entitled to that epithet. It is to be lamented that the errors and fluctuation of theories founded upon supposed facts, have exposed even





Science to the Charge of Uncertainty, and  
 calls even its usefulness in Question. Of the  
 latter I shall say nothing at present. Of the  
 former I shall only remark that the  
 imperfection of medicine has been mistaken  
 for its Uncertainty. The instances in  
 which physicians mistake a disease, or  
 form a wrong judgment of its issue in  
 life, or death are ~~some~~ very few. In those <sup>diseases</sup> ~~cases~~  
 which they are unable to cure, they still  
 discover the certainty of our Science by  
 predicting their fatal termination. Our in-  
 -ability to cure all diseases is a proof only  
 of the imperfection of medicine, but even this  
 imperfection is much less than it is suppo-  
 -sed to be as far as it depends upon a phy-  
 -sician, for our patients die of <sup>common</sup> ~~incurable~~



used as <sup>of our ignorance or of</sup>  
~~V~~ ~~hardly~~ ~~to~~ ~~make~~ proofs of the imperfection  
of medicine which ~~of~~ were probably never in-  
-tended to be known and if known would  
afford us no assistance in curing diseases.  
For example - What ~~advantage~~ benefit should  
we derive from being able to ascertain ~~the~~  
whether in a disease in the lungs, its seat is  
was in the right or left lobe, or whether ~~is~~  
a disease of the brain, ~~it~~ occupied <sup>its</sup> ~~the~~ Dura  
mater or its meninges? ~~The remedies which~~  
~~cure the~~ Disease in all those parts is a Unit, ~~is~~  
~~the~~ same, and the remedies which cure them <sup>all</sup>  
~~are~~, are exactly the same. A knowledge of  
course of its precise seat, is no more necessary  
part of the science of medicine, than a know-  
-ledge of the chemical properties of Aliment  
is necessary to enable it to nourish our  
bodies.









There are three methods of studying the  
 principles and practice <sup>of medicine & physic.</sup> These are, by  
 means of lectures, <sup>by</sup> reading, and by attending  
 upon the ~~prae~~ public or private practice.

1 The mode of communicating knowledge  
 by means of lectures is very ancient. Zeno  
 taught from his porch, Diogenes from his  
 tub, and the Peripateticks in their morning  
 and evening walks. It was in this way chiefly  
 that knowledge was communicated in ~~former~~  
~~and in schools and lectures~~ before the discovery  
 of the art of printing. This noble invention  
 has superseded in a degree, but has not super-  
 -ceded the necessity of oral instruction in  
 our Schools of Science. Lectures <sup>are</sup> ~~contain~~  
~~the discoveries of every year collected and~~  
~~by facts and opinions in~~  
~~arranged in such a manner as to~~  
 suggest ~~important~~ order and

✓ of this, we have a ~~strong~~ striking proof  
in very old people, who are sometimes un-  
-able to recollect their friends, and in some  
instances ~~that have~~ ~~with~~ ~~in~~ ~~any~~ ~~know~~.  
-~~less~~ even their children when they meet  
them, until they hear them speak.  
and 2<sup>ly</sup>



method in <sup>and</sup> ~~direct~~ the inquiries of a student, <sup>and</sup> they contain much details of the <sup>occupies</sup> discoveries and improvements that are made ~~specifically~~ in every part of the world as to save him an immense expense <sup>in time &</sup> ~~in~~ <sup>the knowledge acquired</sup> in this way moreover makes a deeper impression upon the mind <sup>than</sup> that ~~the~~ <sup>which is obtained by</sup> silent reading, ~~going to~~ <sup>This impression depends not</sup> ~~this has been proved~~ <sup>to</sup> the greater fidelity of our ears, than of our eyes in it and that for an obvious reason knowledge penetrates deeper into it when taken in by the ears than ~~the mind than by the eyes~~ <sup>upon two causes</sup> ~~the eyes and~~ <sup>upon two causes</sup> ~~the ears~~ <sup>the greater fidelity of the ears than</sup> ~~only by~~ the eyes in retaining knowledge, but upon the assistance the memory derives from the association what is taught with the voice, and manner of the speaker.





Great as the advantages of oral instruction  
 are in teaching some branches of science,  
 they ~~so~~ are very much limited in teaching  
 the practice of physic. In a single course  
 of lectures it is not possible to collect, and  
 deliver a hundredth part of all that a physi-  
 -cian ought to know of the causes, symp-  
 -toms and remedies of diseases. There are besides  
 many things in this branch of medicine  
 that ought to be known that cannot  
 be taught from the incompetency of lan-  
 -guage for that purpose. ~~In what~~ Where  
 shall we find words that are capable of  
 establishing a correct relationship between  
 the <sup>different</sup> states of the pulse, of the countenance and  
 of the tones of voice, and ~~the~~ ideas of them  
 in the mind of a student of medicine?

V and the memories of other people, our  
own, and live by a kind of multiplied ex-  
-istence whole centuries in the course of a  
single life.



To ~~aid~~ supply the deficiency of lectures in teaching the practice of physic, recourse should be had to <sup>2<sup>ly</sup> to</sup> ~~reading~~ books. Here we meet with histories the results of the observations and reflections of physicians in different ages & countries, and thereby supply the want of individual experience. ~~we~~ By means of this <sup>make the</sup> resource for knowledge we ~~multiply our eyes,~~ <sup>multiply our</sup> ~~eyes~~ <sup>hands</sup> — ~~we multiply our~~ <sup>with all that can be said in favor of</sup> ~~books, above are inpos-~~ <sup>books, they are inpos-</sup> ~~ible.~~ — But <sup>reading</sup> ~~books~~, they are inpos-  
~~ible means of teaching the practice of physic.~~ <sup>like lectures, they are</sup> ~~They are~~ incapable, from the poverty of language of conveying <sup>certain</sup> ~~many~~ ideas that <sup>are</sup> ~~are~~ <sup>acquired only by observation.</sup> Many symptoms are ~~suggested by diseases.~~ <sup>Many symptoms are</sup> ~~omitted in their histories of diseases, and fatal errors are~~ <sup>omitted in their histories of diseases, and fatal errors are</sup> ~~often incorrect from accident or design.~~ <sup>is seldom had to the grade or stage of the disease in which</sup> ~~Reason where this is the case they are~~ <sup>remedies are prescribed, and even when this is not the case, they</sup> ~~are seldom capable of directing the practice of~~ <sup>a physician in any other country than</sup>





that in which they were written. ~~but shall~~  
In support of  
~~we say it was of the correctness of these remarks~~  
I shall select ~~from many~~ but two ~~instances~~  
~~I will furnish many proofs from the most~~  
proofs from ~~many~~ among many hundred  
~~common and popular books authors many~~  
~~hundred proofs from authors that might be~~  
~~adduced~~ mentioned. There is not a  
single history of madness extant in which  
it is not distinguished from delirium, by  
a natural pulse and the absence of fever.  
now this is so far from being true, that  
a febrile pulse or preternaturally frequent  
pulse is a characteristic symptom of the  
former disease. again - In ~~no disease~~ <sup>not more than two</sup>  
or three instances is the ~~state of the pulse as to strength~~  
~~the pulse~~ <sup>or weakness</sup> taken notice of in the history of  
dyspepsia by practical writers. Even its frequency  
is seldom mentioned, now ~~the fact~~ I shall  
say hereafter that the nature, and ~~fact~~ of  
dyspepsia can be known, and that it can be cured



V many of them are incorrect from the <sup>indolence</sup> ~~idleness~~  
or ignorance of their Authors, Others are mischievous  
from their containing Details of Cases fabricated  
to serve the purposes of interest or fame, while

It is remarkable, ~~that a similar~~  
The ~~same of medicine in the last particular of these~~  
~~sources of error, is not singular. The same disposition~~  
no less than in medicine.  
to copy, has prevailed in ~~poetry~~ poetry & painting.  
The descriptions of the seasons in England for  
many Centuries were copied chiefly ~~from the Roman & Greek~~  
and Roman poets, ~~and Italian~~ faces only were painted by English  
Artists for many Centuries. To the pen of Mr  
Thompson the British Nation is indebted for the  
first correct description of this Season that ever  
was published, and to the pencil of our Countryman  
West she owes the introduction of the British  
Countenance upon ~~her~~ canvass. In like <sup>manner</sup> most of  
the histories of diseases that are contained in British  
Books are taken from Greek & Roman Authors.  
Sydenham first achieved in medicine what  
Thompson and West effected in poetry & painting.  
His example has been imitated by Thesiger, Pringle =



only by a constant reference to the different states of the pulse.

It were to be wished, ~~that~~ there were no other objections to medical books than those which have been mentioned, but ~~no~~ justice to this part of my subject requires me to add, that <sup>more of</sup> many of them are ~~worthless~~ scraps from containing nothing but transcripts of ~~former~~ <sup>have</sup> common facts and opinions that ~~had~~ <sup>have</sup> been crammed through a thousand noses, & diversified only by novelty in their arrangement or phraseology. <sup>11</sup> ~~As many of these are incorrect~~ Cleghorn, and Willan with Smeath. These illustrious men may justly be <sup>considered as</sup> ~~considered as~~ high priests constantly administering offerings this invaluable writings ~~for~~ for the benefit of mankind upon that part of the altar of nature which is appropriated to the science of medicine.

The 3<sup>d</sup> mode of acquiring a knowledge of the practice of ~~physic~~ <sup>becoming a pupil</sup> medicine, is by attending in the practice of some public medical institution,





or of a private practitioner of physic. In one  
 or both these ways only can be a physician  
 be completely educated. The business of a student  
 of medicine in either of the above situations will  
 consist in the first place in <sup>preparing</sup> ~~composing~~ medi-  
 cines for the sick. ~~the~~ In order to become  
 perfectly acquainted with them he should make  
 up the compounds, such as tinctures, bint-  
 -ments, ~~and~~ powders and masses of pills from  
 which the <sup>individual</sup> prescriptions are prepared. By this  
 means he will acquire a <sup>knowledge of</sup> ~~familiarity with~~  
 the sensible qualities & virtues & doses of medi-  
 -cines which will never pass out of his mind.  
 & In the situations that have been mentioned,  
 he will have access to sick people and thereby be-  
 -come intimately acquainted with the causes,  
 symptoms and grades of diseases. For this pur-  
 -pose it will be necessary for him to perform certain  
 offices to the sick, without which he will seldom





be permitted to visit them, and from which the principal part of his knowledge will be derived.

These offices are Bleeding; applying & dressing blisters, ~~giving injections~~ & sitting up with the sick. —

In the act of bleeding a Student will have an opportunity of perceiving <sup>the</sup> ~~its~~ effect of the loss of blood upon the strength of a patient, upon his pulse, his pains, his tongue, his skin, his stomach, his bowels and even his mind. — He will discover the force of his disease by the <sup>and color</sup> form of the stream of blood which issues from a Vein, and ~~the~~ by the greater, or less promptness with which the orifice heals from which the blood has been discharged.

~~At the dressing of the~~

In dressing blisters he will discover their influence upon the head, the stomach & the bowels &



W  
H  
A  
L



the skin. He will perceive that, a certain state of excitement in the skin in which they rise most readily, and he will <sup>be</sup> able to form a tolerable judgment of the nature & duration of the disease by the quality of the fluids that are discharged from them. He will <sup>be</sup> able to <sup>tell</sup> repeating the depressions of them, <sup>he will</sup> be able to <sup>tell</sup> whether the disease be in an increasing or declining state, and he will <sup>accordingly to</sup> regulate his prescriptions, <sup>by their different appearances when he enters upon the practice of medicine.</sup>

[In administering injections the student of medicine will perceive the <sup>sympathy</sup> ~~connection~~ of the bowels with the whole system - he will discover the <sup>feeble</sup> ~~double~~ sensibility of the <sup>lower</sup> ~~bowels~~ compared with the stomach, to heat, cold and other remedies, and in certain <sup>of the intestines</sup> ~~intestinal~~ diseases he will observe now and then a proof of their inverted motions by a rupture of ~~the~~ his glyster pipe, or by its being absorbed as it were by the bowels.]



A physician thus <sup>well</sup> taught in his pro-  
-fession, will differ widely in his practice  
from one who has acquired all his  
knowledge from ~~books~~ lectures & books,  
or by ~~walking~~ <sup>walking</sup> ~~hastily~~ <sup>hastily</sup> through a hospital.  
He will not throw a stone at a venture.  
at a disease. He will, <sup>at</sup> once ~~at once~~  
close upon it, and from his well  
earned knowledge of its weak parts, he  
will seldom fail of obtaining a Victory over it.

In a word gentlemen I would as soon  
expect to a young man would learn to swim  
by hearing a lecture, or reading a treatise upon  
that art without going into the water; as  
a student of medicine become a physician  
in any other way than by ~~understanding~~ <sup>performing</sup> all  
the offices I have mentioned to sick people.



In sitting up with sick people he will observe the position of the body, the motions of the limbs, the state of the <sup>pulse and the skin</sup> ~~eyes and countenance~~ and above all the state of <sup>the eyes &</sup> ~~his~~ countenance, <sup>in sleep,</sup> from which he will be able to find out many things ~~that~~ <sup>in the</sup> nature and tendency of diseases which can never be discovered in the waking state.

It may be said, all the knowledge ~~the~~ <sup>recommended,</sup> acquired in the ways I have ~~mentioned~~ <sup>recommended</sup> may be met with <sup>in</sup> books, ~~as I have said~~ <sup>or picked up from</sup> ~~or obtained~~ from lectures, <sup>from</sup> ~~but~~ this is by no means the case, — and if it were, it would seldom be recollected long enough to be useful to you. The more serious knowledge passes through in ~~losing~~ <sup>losing</sup> the mind, the longer it will be retained. While ~~books~~ lectures and books convey it ~~very~~ only through the medium of the ear, and the ear, such an intercourse with sick

V By means of so many <sup>Different</sup> currents of im-  
-pression acting ~~upon the~~ at the same time  
upon the mind, a physician is formed as it  
were in an insensible manner. <sup>his</sup> ~~own~~  
exact knowledge of the morbid states of the system,  
and of the preparations and doses of medicines  
thus obtained, he acquires apparently such  
an empire over ~~diseases~~, the <sup>functions</sup> ~~actions~~ of the  
body, that diseases and medicines <sup>shall I dare assert it?</sup> seem to  
obey him. But this is not all. — ~~say~~



people as I have described, conveys it through  
 every sense of the body. — we see <sup>their</sup> the countenances  
 & — we hear <sup>the tone of</sup> ~~their voices~~ their voices, we  
~~handle the~~ become familiar with the <sup>heat & cold,</sup> ~~heat~~ <sup>types</sup>  
 sections, the comparative moisture & dryness of  
 their skins by the sense of touch, — we smell  
 their breath, and ~~the~~ other excretions — and  
 in some instances we taste their sweats. <sup>By</sup>  
~~even this kind of~~ With advantage. <sup>Under the</sup>  
~~influence of so many different currents~~  
~~of impressions upon the mind at the same time,~~  
~~it is not surprising that a physician so formed as~~  
~~it is, is not easily misled~~ <sup>it has been said</sup> ~~it is~~  
~~from the effects of habit a button maker~~  
~~becomes a button, and a buckle maker~~  
~~a buckle in some of the manufacturing towns~~  
~~in Great Britain. In like manner~~ <sup>from</sup>  
~~in England. ~~Even~~ a similar habit~~  
 intercourse with sick people, a physician  
<sup>as it were</sup> becomes a medicine. He is so completely  
 and promptly accommodated to in mind &

V There is a reason for this conduct which  
operates with peculiar force in this country.  
From the difference <sup>which</sup> ~~in the~~ Climate, Diet, and  
Manners impose upon <sup>our</sup> Diseases, from those  
of Great Britain and other foreign countries,  
it will be unsafe to implicitly to follow their  
Writers, and as yet we have not a sufficient  
number of practical publications in America  
to supply this place. In this state of medicine  
there is nothing left for the student, but to  
become his <sup>own</sup> teacher and  
~~expose all the faults of his mind, and~~  
~~observe and think and act for himself~~ <sup>to</sup> rely  
exclusively ~~the~~ upon the resources of his <sup>own</sup> mind.



body to ~~any~~ <sup>the</sup> changes & symptoms of diseases,  
 that ~~his~~ very presence in a sick room  
 is a remedy for them. Even his name <sup>the</sup>  
 impresses vigor, ~~hope~~, and confidence into ~~the~~  
 minds of his patients, ~~depending minds~~, and thereby often cures their  
~~body~~ diseases. — in an eulogium <sup>by the Duke of York</sup>  
~~upon the late~~ Sir

It was said <sup>of the late British General</sup> Sir  
 John Moore that he lived with his troops.  
 In this way he acquired his consummate  
 military knowledge, and from this source he  
~~became~~ derived that ~~immense~~ stock of merit  
 and fame that drew tears from a whole  
 nation when he fell. In like manner if  
 a physician ~~wishes~~ student of medicine wishes  
 to be <sup>at the head</sup> ~~eminent~~ of his profession, <sup>to be</sup> honoured  
 while living, and lamented <sup>when</sup> ~~with~~ dead, he  
must live among sick people. ~~as well as~~

Let it not be said that a student of  
 medicine will degrade himself by performing

V From the writings of Hippocrates &  
Sydenham it would seem they were  
not only good Apothecaries, but excellent  
Cooks & Dicers, and it was probably by  
combining those characters with that  
of a Physician, that they became  
such great benefactors to the health &  
lives of <sup>their fellow creatures.</sup> ~~man~~ <sup>the</sup> ~~people~~. But further -



~~The office I have mentioned~~ into the humble con-  
-dition of an ~~apothecary~~ or a Nurse ~~at least~~ by  
performing the ~~humble~~ offices I have mentioned.  
There is no dishonor <sup>in a physician's</sup> in being a good apothec-  
-ary, on the contrary, <sup>both honor</sup> there is ~~great~~ <sup>the hands of</sup> ~~dis-~~  
~~honor~~ <sup>and profit in it.</sup> Cullen, Solbergill,  
Thack and Watson all ~~said~~ <sup>that</sup> ~~these are apothec-~~  
~~aries~~ ~~shops~~ were familiar for many years  
with the pestle and mortar, the lancet <sup>all</sup> & the  
other instruments for ~~attending~~ <sup>relieving</sup> the  
distresses of sick people before they entered  
upon the higher studies and duties of the  
profession ~~said by these~~ of medicine, in which  
~~they all became the peculiarly eminent &~~  
useful. As far as my observations have  
extended, I do not know an instance of a  
physician any where who has arrived ~~at~~ <sup>the</sup>  
eminence in his profession, who has  
not ~~said~~ <sup>that</sup> ~~these~~ <sup>are</sup> ~~apothecaries~~ <sup>shops</sup>





41 it. ~~eloquent to it. Watson,~~  
on his way to his ~~work & perhaps~~  
~~last the Hutchinsons, Cooper, Horsfield~~  
Among the Graduates in our University, the  
Waters, the two Hutchinsons, Cooper, Horse-  
field, and <sup>several</sup> ~~many~~ others, who might be  
named occupy the first rank for practical  
knowledge in medicine, and these <sup>all</sup> ~~best~~  
all ~~have~~ spent five or six years in per-  
forming ~~the~~ the duties of Apothecaries in the  
Pennsylvania Hospital. Indeed so far <sup>is</sup> ~~does~~  
a practical knowledge of those duties <sup>from being</sup> ~~disreputable,~~  
that to be ignorant of them is disgraceful  
to a physician, if that title can be justly  
Applied to ~~such a person~~ him. A plain  
farmer in England once rambled into a  
public room, where he saw three gentlemen  
clad in the robes which characterize the  
Church, the Army & the Bench of that country.





Struck with their appearance he cried out,  
 "See there a minister of the Gospel, a soldier,  
 and a lawyer sitting together." "You are mis-  
 -taken (said a person who heard his speech).  
 The man whom you suppose to be a minis-  
 -ter of the Gospel is a bishop, - the man whom  
 you suppose to be a soldier, is a general, &  
 the man whom you suppose to be a  
 lawyer is a judge." "Ah! my poor country  
 said the farmer what will become of you  
 when you are in the hands of a bishop  
 who is no minister of the Gospel, of a general  
 who is no soldier, and of a judge who is no  
 lawyer". With equal propriety may we say,  
 what will become of the healthful lives of the  
 citizens of the United States, should they be  
 committed to the care of physicians like

✓ Upon the expenses of Sicknes to our  
patients, and at the same time, increase,  
~~tho~~ in a moderate degree, the profits of our  
~~Attendance upon~~  
~~labour in attending~~ <sup>Attendance upon</sup> them. It was  
in part to answer these purposes, and <sup>to</sup> save  
themselves from greater evils, that the  
physicians have <sup>lately</sup> been obliged to resort to  
the Duties of the Apothecary in many  
parts of Great Britain. In so ~~doing~~ <sup>doing</sup>  
they =



are not Apothecaries? 43

There remains one more reason to be noticed in favor of combining the duties of the Apothecary with the physician, and that is <sup>it</sup> will ~~prevent~~ <sup>prevent</sup> the profits of our profession being <sup>divided</sup> with men who are <sup>not</sup> ~~entitled~~ <sup>entitled</sup> to ~~it~~ <sup>them</sup>, and thereby <sup>lessen</sup> the expenses of <sup>sickness</sup> to our patients. This has of late years become so much the case in Great Britain <sup>in</sup> that physicians have been compelled <sup>to</sup> in many places to lay aside all the dramatic paraphernalia of their profession, and to resort to the duties of the Apothecaries in order to pursue their business. <sup>In this, they</sup> ~~It is in consequence~~ of Dr Gregory of Edinburgh having refused <sup>to</sup> ~~let us learn wisdom by their own conduct~~ <sup>for</sup> ~~we~~ have acted ~~wisely~~ <sup>wisely</sup>, for it is a fact, the greatest part of the profits of ~~the~~ <sup>our</sup> profession are derived from services which an ~~able~~ <sup>able</sup> Apothecary, or even an experienced Nurse





is as able to perform as the most skilful physician.

All that has been said in favor of studying the history & cure of diseases ~~is~~ by means of an intercourse with <sup>people</sup> sick, applies with equal force to the study of surgery and midwifery. — ~~The~~ <sup>The</sup> fingers must

aid the eyes and the ears in acquiring a knowledge of them. Say not they are ~~not~~

unnecessary branches of a medical education.

— They form a part of that ~~great circle~~ <sup>the great circle</sup> of medicine and ~~affect each other~~ <sup>the practice of physics</sup> ~~the practice of physics~~ <sup>the science of medicine</sup> reflect so large portions of light upon the practice of physics, and so intimately connected are all the objects

of both of them that a ~~man~~ <sup>man</sup> with the knowledge

and cure of diseases, that a man cannot be

a physician who is ignorant of them. Say

not further — that you do not ~~intend~~ <sup>intend</sup> to

practise them. Your lot may be cast into

situations in which you ~~would~~ <sup>may</sup> have erg

election upon this Subject, and if this

should not be the case, humanity may





now I then make it necessary to save your  
~~proper~~ moral as well as your professional  
 character. There is no national vanity in  
 admitting the accounts which have been  
~~admitted by the press which record of the~~  
~~actions of Europe have ascribed to the state~~  
~~of medicine in published after improving~~  
 published in several European countries  
 of the improving state of medicine in the  
 United States. ~~They are too sacred I believe~~  
~~to be described chiefly to the~~  
 strictly true, and they are to be ascribed chiefly to the  
 influence of luxury, not having as yet dispo-  
 sed the early and natural Union of the  
 professions of physic, surgery & midwifery in this  
 country. —

While I thus urge the necessity of cultiva-  
 -ling a familiarity with diseases by attending the  
 to public or private practice, do not suppose I wish  
 to lessen your diligence in reading & attending  
 lectures. On the contrary, ~~they will be a great~~  
~~you in profiting by your attendance upon~~  
 permit me to recommend each of them to you





in the strongest terms. They will <sup>mentally assist</sup> ~~render your~~  
<sup>under your</sup> attendance upon sick people more useful to  
 you by directing your attention to objects that  
 might otherwise escape your notice, and will  
 serve to correct mistakes <sup>from</sup> ~~to~~ which observation  
 sometimes does not always exempt the hu-  
 -man mind. ~~The danger~~ <sup>mistake</sup> to which you will  
 exposed from reading and attending lectures will  
 be in like manner be corrected by your fami-  
 -liarity with Diseases. - You will perceive the im-  
 -mense difference between the descriptions of  
 them in books, and as they occur in real  
 life. You will particularly be struck with  
 their want of dissimilarity, ~~to the Diseases of~~  
~~the United States~~ as described <sup>by</sup> British  
 and ~~by~~ East & West India Authors, to the  
 Diseases of the United States.





I have thus gentlemen briefly pointed out  
 a <sup>mode</sup> ~~method~~ of studying medicine which I conceive  
 to be <sup>best suited to promote all the benefits and</sup> ~~best suited to the present state~~  
 of ~~our profession is capable of conferring~~  
~~of society and manners in the United States.~~  
 upon mankind. —  
 It remains now only to mention the time  
 that will be necessary to acquire such a  
 knowledge of it as will qualify a young man  
 to practise it with safety to his patients &  
 honor to himself. —

From a review of the ~~various~~ <sup>with</sup> branches of ~~various~~ <sup>Science</sup> ~~Science~~ which  
 it is necessary for ~~the~~ <sup>of medicine</sup> a student to be acquaint-  
 ed, and from the slow and gradual manner  
 in which knowledge can only be obtained  
 in some of them, <sup>it would seem</sup> one half of an ordinary  
 life would scarcely be sufficient for that pur-  
 -pose. However ~~an~~ imperfectly lectures teach,  
 two or three courses of ~~them~~ each of them

✓ ~~But~~ It is common to recommend <sup>Study of the</sup> the works  
of the ancient ~~P~~ Greek and Roman fathers  
in medicine, but this is much less necessary  
now than it was an hundred years ago,  
since nearly every thing valuable in them has  
been translated and quoted in modern books.  
The writings of Hippocrates & Celsus may however  
still be read with advantage not so much upon  
account of the knowledge <sup>that is still</sup> retained in them, as  
- as to acquire the happy art of connecting in Ob-  
- serving, and fidelity in recording the symptoms  
of diseases. It will be useful for a Student to



should be attended, by every student of medicine,  
nor should the errors, or even falsehoods  
contained in medical books prevent his  
reading them. ~~These are for the most error-~~

-ous of them there will be found many  
useful truths. <sup>Such of the Grecian & Roman</sup> ~~that the number is~~

fathers in medicine as are translated into En-  
-glish language should be read by them par-

-ticularly all the works of Hippocrates) ~~and~~

~~should~~ <sup>likewise</sup> make himself acquainted with anti-  
-cient and modern systems <sup>of medicine, but</sup> ~~and~~ above all

he should read ~~every treatise upon Hygiene~~ <sup>every treatise upon Hygiene</sup> ~~and all the practical books~~ <sup>ancient and modern, whether</sup>

to which he can <sup>have</sup> access ~~in many languages~~ <sup>in his own or foreign countries.</sup>

In the most erroneous of ~~these books~~ <sup>these works</sup> he  
will find many useful truths, ~~but~~ and

even ~~the~~ <sup>he</sup> errors will ~~serve~~ <sup>will sometimes</sup> to discover in  
them ~~will suggest more and there suggest~~

~~as useful ideas may~~ be found to be truths

✓ a young man. educated & graduated in  
his time, is for the most part an Abolition  
in medicine. -



out of this proper <sup>49</sup> plans. <sup>Four</sup> ~~Two~~ years will  
 barely be sufficient <sup>to</sup> ~~to~~ accomplish what  
 has been mentioned, three of which should  
 be spent in attending the practice of a <sup>private</sup> ~~private~~  
 physician, ~~of~~ of a public hospital. I am  
 aware that <sup>he</sup> ~~in a much shorter time~~ <sup>in two or three years to</sup> ~~may have~~  
 answer all the questions that are usually  
 asked at an examination for the degree  
 of Doctor of medicine, for these are confined  
 wholly to the lectures which he has attended,  
 but ~~as~~ is the knowledge contained in these  
 lectures all that <sup>should</sup> ~~ought~~ to be known by a  
 physician? By no means, and however  
 strange it may sound, I think I have ob-  
 served in ~~Europe~~ some instances that in proportion  
 as ~~some~~ of the <sup>as</sup> candidates have answered  
 correctly upon the subjects of the lectures, they  
 have been deficient in reading & practical

✓ Shoemaker, or the taylor that undertakes  
to exercise his trade,



Knowledge. This is the natural consequence of  
but two or three years Application to the study  
of medicine. A longer term of study would <sup>have</sup>  
their ~~qualifications~~ attainments equally respectable ~~that~~  
~~understand them~~ ~~greatly correct~~ ~~in~~ ~~the~~  
~~that kind of~~ knowledge that is derived from books,  
and an <sup>attending upon</sup> ~~interest~~ with sick people.

Where is the <sup>V</sup> ~~mechanic~~ ~~that~~ ~~used~~ ~~the~~ ~~perfect~~ ~~or~~ ~~ambitious~~  
~~to build a bridge or to make any part of~~  
~~the exercise of his art~~ without a previous  
~~apprenticeship~~ of five or six years? and ~~where~~  
is the ~~reason~~ that ~~we~~ shall ~~the~~ <sup>less</sup> time be spent  
in learning ~~the~~ all the fundamental and  
practical branches <sup>our</sup> of Science that are necessary  
to cure diseases? Is health <sup>less</sup> valuable than  
a pair of shoes, and is life <sup>less</sup> precious than  
a suit of clothes?

~~may we~~ ~~the~~ ~~members~~ ~~never~~ ~~become~~  
the ~~bed~~ ~~of~~ ~~such~~ ~~physicians~~, ~~and~~ ~~students~~  
may a spirit of rivalry, <sup>for</sup> ~~between~~ ~~us~~  
in our <sup>for</sup> ~~between~~ ~~us~~  
Medical Universities, never permit their

V And who are wholly ignorant of the  
practical <sup>& marginal</sup> ~~mechanical~~ parts of medicine;  
and even of the sensible qualities of the most  
common articles of the materia medica;



honors to be prostituted, ~~and~~ by conferring them  
upon men whose knowledge consists only in  
words and definitions, <sup>but if in spite of the</sup> ~~and many times the~~  
dictates of reason, of patriotism, of humanity  
~~laws of our states protect the lives of our~~  
~~and of conscience - this~~  
~~citizens from the ignorance, best if this~~  
<sup>should</sup> ~~be done~~ be done; gracious Heaven! anet  
~~this~~ their murdering hands, and save, oh!  
save our citizens from such ~~butchered~~  
exterminators of the human race!



